

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 2

Listing of the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1 – 70 canceled.

71. (Previously presented) A propylene copolymer composition comprising:

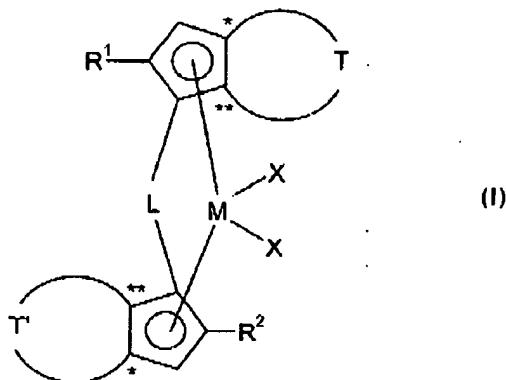
- A) from 50% to 80% by weight of a propylene copolymer comprising from 0.05 to 0.99% by weight of at least one alpha olefin comprising from 2 to 10 carbon atoms, with the proviso that the alpha olefin is not propylene; and
 - B) from 20% to 50% by weight of one propylene copolymer comprising from about 7.01 to about 20.0 % by weight of at least one alpha olefin comprising from 2 to 10 carbon atoms, with the proviso that the alpha olefin is not propylene;
- said propylene copolymer composition further comprising:
- (i) a MFR (230°C/2.16 kg) from about 1 to about 20 g/10 min;
 - (ii) a tensile E modulus according to ISO 527-2:1993 from about 400 to about 800 MPa; and
 - (iii) a molar mass distribution M_w/M_n ranging from 1.5 to 3.5.

72. (Previously presented) The propylene copolymer composition as claimed in claim 71, further comprising a melting point from 143°C to 150°C.

73. (Previously presented) The propylene copolymer composition as claimed in claim 71, further comprising a haze according to ASTM D 1003 from 25% to 40% without adding clarifying agents.

74. (Previously presented) The propylene copolymer composition as claimed in claim 71, produced using a catalyst system comprising at least one metallocene compound of formula (I),

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 3



wherein

- M is zirconium, hafnium or titanium;
- X are, identical or different and are independently of one another, hydrogen, halogen, -R, -OR, -OSO₂CF₃, -OCOR, -SR, -NR₂ or -PR₂, wherein R is a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond, or two X radicals may be joined to one another;
- L is a divalent bridging group selected from the group consisting of a C₁-C₂₀-alkylidene radical, a C₃-C₂₀-cycloalkylidene radical, a C₆-C₂₀-arylidene radical, a C₇-C₂₀-alkylarylidene radical and a C₇-C₂₀-arylalkylidene radical, which may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or a silylidene group comprising up to 5 silicon atoms;
- R¹ is a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 4

C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond;

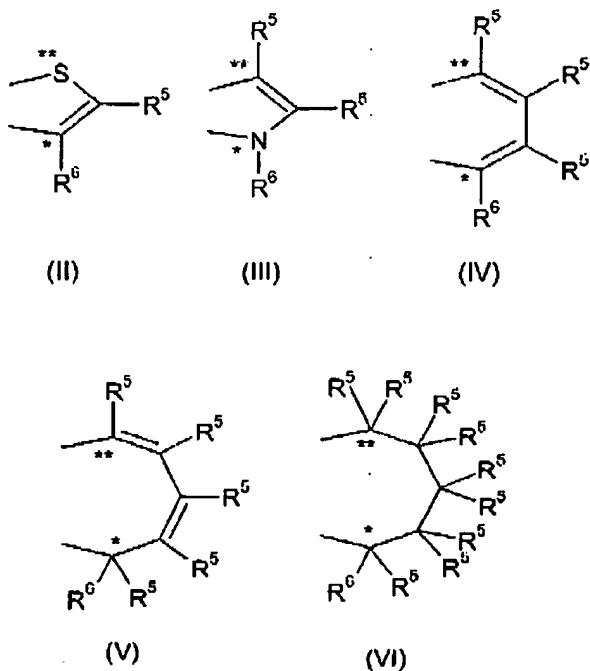
R² is -C(R³)₂R⁴;

R³ are, identical or different and are each independently of one another, a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond, or two R³ radicals may be joined to form a saturated or unsaturated C₃-C₂₀-ring;

R⁴ is hydrogen or a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond;

T and T' are divalent groups of formula (II), (III), (IV), (V) or (VI),

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief. Page 5



wherein

the atoms denoted by the symbols * and ** are joined to the atoms of the metallocene compound of formula (I) which are denoted by the same symbol, and

R⁵ are, identical or different and are each independently of one another, hydrogen, halogen or a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond;

R⁶ are, identical or different and are each independently of one another, halogen or a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl,

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief..... Page 6

C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond.

75. (Previously presented) The propylene copolymer composition as claimed in claim 74, wherein L is -SiMe₂- or -SiPh₂-.

76. (Previously presented) The propylene copolymer composition as claimed in claim 74, wherein R¹ is preferably a linear or branched C₁-C₁₀-alkyl group which is unbranched in the α position.

77. (Previously presented) The propylene copolymer composition as claimed in claim 76, wherein R¹ is a linear C₁-C₄-alkyl group.

78. (Previously presented) The propylene copolymer composition as claimed in claim 77, wherein R¹ is methyl, ethyl, n-propyl or n-butyl.

79. (Previously presented) The propylene copolymer composition as claimed in claim 71, wherein the alpha olefin is exclusively ethylene.

80. (Previously presented) The propylene copolymer composition as claimed in claim 71, wherein the alpha olefin of B) is from about 7.01% to about 9.99% by weight.

81. (Previously presented) The propylene copolymer composition as claimed in claim 71, wherein the alpha olefin of B) is from about 8.0% to about 9.6% by weight.

82. (Previously presented) The propylene polymer composition as claimed in claim 71, wherein the MFR is from 6 to 12 g/10min.

83. (Previously presented) The propylene polymer composition as claimed in claim 71, wherein the tensile E modulus is from 550 to 750 MPa.

84. (Canceled).

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 7

85. (Previously presented) A film comprising a propylene copolymer composition comprising:

- A) from 50% to 80% by weight of a propylene copolymer comprising from 0.05 to 0.99% by weight of at least one alpha olefin comprising from 2 to 10 carbon atoms, with the proviso that the alpha olefin is not propylene; and
- B) from 20% to 50% by weight of one propylene copolymer comprising from about 7.01 to about 20.0 % by weight of at least one alpha olefin comprising from 2 to 10 carbon atoms, with the proviso that the alpha olefin is not propylene;

wherein A) and B) are obtained using a catalyst system comprising at least one metallocene compound, and the propylene copolymer composition further comprises a MFR from about 1 to about 20, a tensile E modulus from about 400 to about 800 MPa, and a molar mass distribution M_w/M_n ranging from 1.5 to 3.5; and the film has a haze less than about 10.0% and a dart impact greater than about 150 gms for a 1 mil thick film.

86. (Previously presented) The film according to claim 85 further comprising a melting point of between about 143°C to about 150°C.

87. (Previously presented) The film according to claim 85, wherein the film has a haze less than about 5% for a 1 mil thick film.

88. (Previously presented) The film according to claim 85, wherein the film has a dart impact greater than about 200 gm for a 1 mil thick film.

89. (Previously presented) The film according to claim 85, wherein the tensile E modulus of the propylene copolymer composition is from about 550 to about 750 MPa.

10/593,791 . . . Proposed Amendment Filed with Corrected Appal Brief Page 8

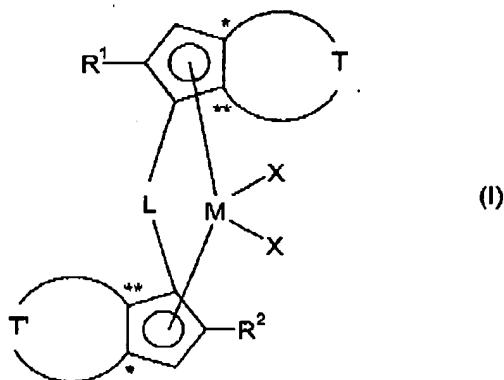
90. (Previously presented) The film according to claim 85, wherein the film further comprises a WVTR greater than about 11.6 gm/m²-day.

91. (Previously presented) The film according to claim 85, wherein the film further comprises a OTR greater than about 3875 gm/m²-day.

92. (Previously presented) The film according to claim 85, wherein the film further comprises a CO₂TR greater than about 19,375 cc/m²-day.

93. (Previously presented) The film according to claim 85, wherein the film further comprises a hexane extractables not greater than about 2.6%, and xylene solubles less than about 30%.

94. (Previously presented) The film according to claim 85, wherein the metallocene compound is of formula (I):



wherein

M is zirconium, hafnium or titanium;

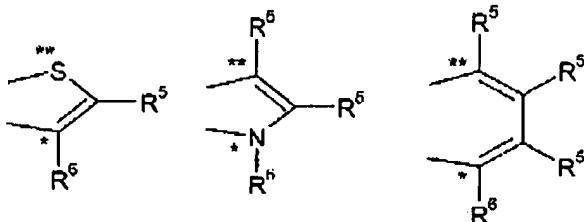
X are, identical or different and are independently of one another, hydrogen, halogen, -R, -OR, -OSO₂CF₃, -OCOR, -SR, -NR₂ or -PR₂, wherein R is a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylkyl, wherein R may comprise at

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 9

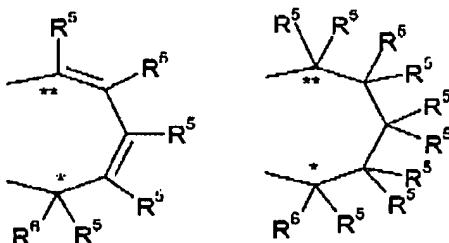
- least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond, or two X radicals may be joined to one another;
- L is a divalent bridging group selected from the group consisting of a C₁-C₂₀-alkylidene radical, a C₃-C₂₀-cycloalkylidene radical, a C₆-C₂₀-arylidene radical, a C₇-C₂₀-alkylarylidene radical and a C₇-C₂₀-arylalkylidene radical, which may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or a silylidene group comprising up to 5 silicon atoms;
- R¹ is a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond;
- R² is -C(R³)₂R⁴;
- R³ are, identical or different and are each independently of one another, a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond, or two R³ radicals may be joined to form a saturated or unsaturated C₃-C₂₀-ring;
- R⁴ is hydrogen or a linear or branched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl, wherein the C₁-C₂₀ alkyl or C₃-C₂₀ cycloalkyl may be substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, and R may comprise at least one unsaturated bond;

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 10

T and T' are divalent groups of formula (II), (III), (IV), (V) or (VI),



(II) (III) (IV)



(V) (VI)

wherein

the atoms denoted by the symbols * and ** are joined to the atoms of the metallocene compound of formula (I) which are denoted by the same symbol, and

R^5 are, identical or different and are each independently of one another, hydrogen, halogen or a linear or branched C_1 - C_{20} -alkyl or C_3 - C_{20} -cycloalkyl, wherein the C_1 - C_{20} alkyl or C_3 - C_{20} cycloalkyl may be substituted by at least one C_1 - C_{10} -alkyl radical, or R is a C_6 - C_{20} -aryl, C_7 - C_{20} -alkylaryl or C_7 - C_{20} -arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond;

R^6 are, identical or different and are each independently of one another, halogen or a linear or branched C_1 - C_{20} -alkyl or C_3 - C_{20} -cycloalkyl, wherein the C_1 - C_{20} alkyl or C_3 - C_{20} cycloalkyl may be

10/593,791 Proposed Amendment Filed with Corrected Appeal Brief Page 11

substituted by at least one C₁-C₁₀-alkyl radical, or R is a C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl or C₇-C₂₀-arylalkyl, wherein R may comprise at least one heteroatom of groups 13-17 of the Periodic Table of Elements, or R may comprise at least one unsaturated bond.

95. (Previously presented) The propylene copolymer composition as claimed in claim 94, wherein L is -SiMe₂- or -SiPh₂-.

96. (Previously presented) The propylene copolymer composition as claimed in claim 94, wherein R¹ is preferably a linear or branched C₁-C₁₀-alkyl group which is unbranched in the α position.

97. (Previously presented) The propylene copolymer composition as claimed in claim 96, wherein R¹ is a linear C₁-C₄-alkyl group.

98. (Previously presented) The propylene copolymer composition as claimed in claim 97, wherein R¹ is methyl, ethyl, n-propyl or n-butyl.

99. (Previously presented) The film according to claim 85, wherein the MFR is from about 6 to about 12.

Claims 100-111 canceled.